

TPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/560,800
Applicant : Jiming Li et al.
Filed : May 12, 2006
Title : Swirl-Reversal Abradable Labyrinth Seal
Art Unit : 3676
Examiner Name : Not Yet Assigned
Confirmation No. : 7396
Customer No. : 28289



MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby submit this Information Disclosure Statement together with a completed Form PTO/SB/08A, PTO/SB/08B, and copies of the cited non-patent literature.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 23, 2006.

Jacqueline C. Vigna

(Name of Person Mailing Paper or Fee)

Jacqueline C. Vigna
Signature

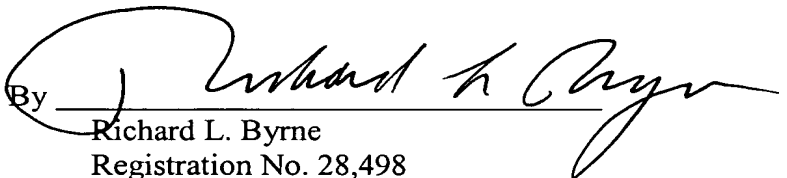
10/23/2006
Date

This application is the United States national phase of PCT/US2004/19436. The International Search Report (ISR) issued in connection with the corresponding PCT application was already received by the Examiner. The prior art listed in the ISR, as well as other prior art known to applicants, are submitted herewith. Also enclosed is a copy of the International Preliminary Report on Patentability which issued in the PCT application.

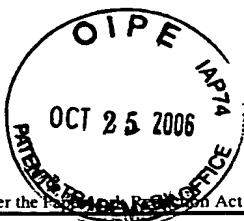
Pursuant to 37 C.F.R. § 1.97(b)(3), no fee is believed to be due for the filing of this Information Disclosure Statement as it is being submitted before a first Office Action on the merits. Nevertheless, the Commissioner for Patents is hereby authorized to charge any additional fees which may be required to Deposit Account No. 23-0650. One original and a copy of this Information Disclosure Statement are enclosed.

Respectfully submitted,

THE WEBB LAW FIRM

By 

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PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/560,800
Filing Date	May 12, 2006
First Named Inventor	Jiming Li
Art Unit	3676
Examiner Name	Not Yet Assigned
Attorney Docket Number	0815-053671

Sheet	1	of	3
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 881,474	03-10-1908	Jude	
		US- 2,963,307	12-06-1960	Robo	
		US- 3,575,523	04-20-1971	Gross, Jr.	
		US- 3,746,462	07-17-1973	Fukuda	
		US- 4,046,388	09-06-1977	Meyer	
		US- 4,057,362	04-08-1977	Schwaebel	
		US- 4,114,059	09-12-1978	Albaric et al.	
		US- 4,257,617	03-24-1981	Hill	
		US- 4,273,510	06-16-1981	Ambrosch et al.	
		US- 4,370,094	01-25-1983	Ambrosch et al.	
		US- 4,420,161	12-13-1983	Miller	
		US- 4,436,311	03-13-1984	Brandon	
		US- 4,714,406	12-22-1987	Hough	
		US- 4,767,266	08-30-1988	Holz et al.	
		US- 4,776,754	10-11-1988	Nishioka	
		US- 4,979,755	12-25-1990	Lebreton	
		US- 5,161,943	11-10-1992	Maier et al.	
		US- 5,190,440	03-02-1993	Maier et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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{W0307772.1}

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Filing Date	May 12, 2006
				First Named Inventor	Jiming Li et al.
				Art Unit	3676
				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	0815-053671

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		E. A. SOTO et al., "Experimental Rotordynamic Coefficient Results for (a) a Labyrinth Seal With and Without Shunt Injection and (b) a Honeycomb Seal", Journal of Engineering for Gas Turbines and Power, January 1999, pp 153-158, Vol. 121	
		NASA Conference Publication 2409, "Instability in Rotating Machinery", June 10-14, 1985, National Aeronautics and Space Administration, pp. 1-13, Reproduced by U.S. Department of Commerce, National Technical Information Service, Springfield, VA	
		K. KWANKA, "Improving the Stability of Labyrinth Gas Seals", Journal of Engineering for Gas Turbines and Power, April 2001, pp. 383-387, Vol 123	
		D. W. CHILDS, ERIAN BASKHARONE, CHRISTOPHER RAMSEY, Test Results for Rotordynamic Coefficients of the SSME HPOTP Turbine Interstage Seal With Two Swirl Brakes, ASME J. of Tribology, Vol. 113, pp. 577-583 / 1991	

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